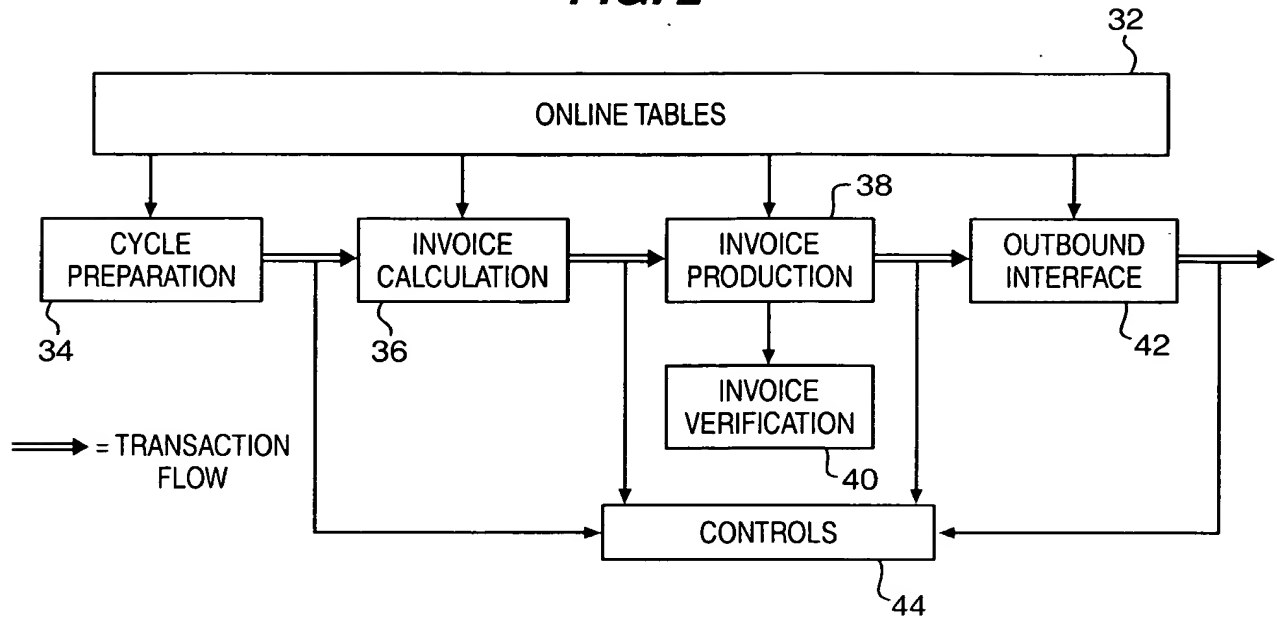
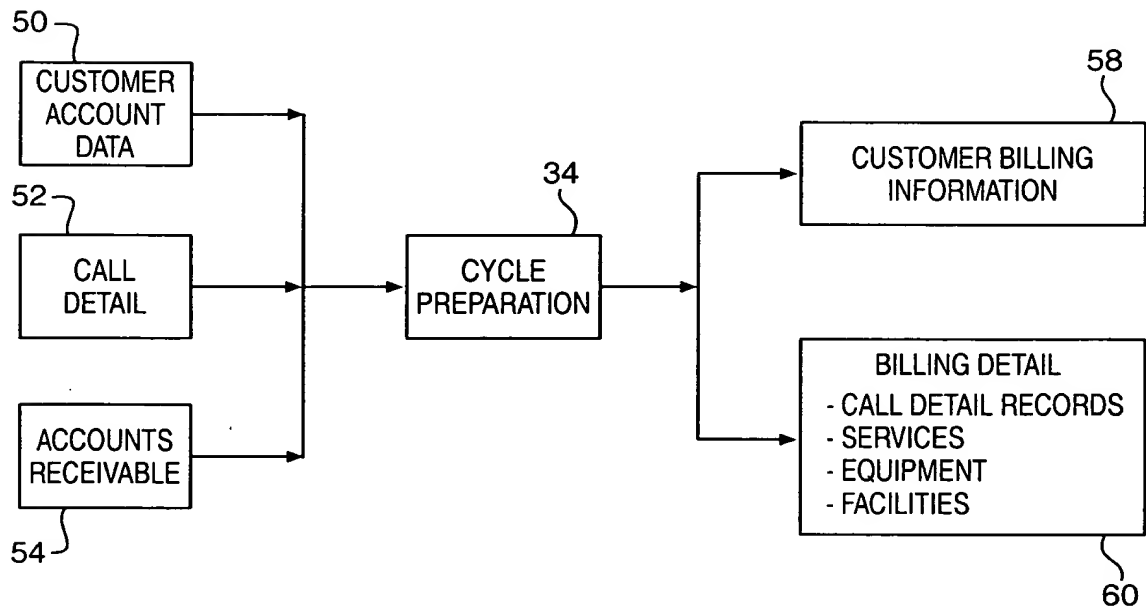


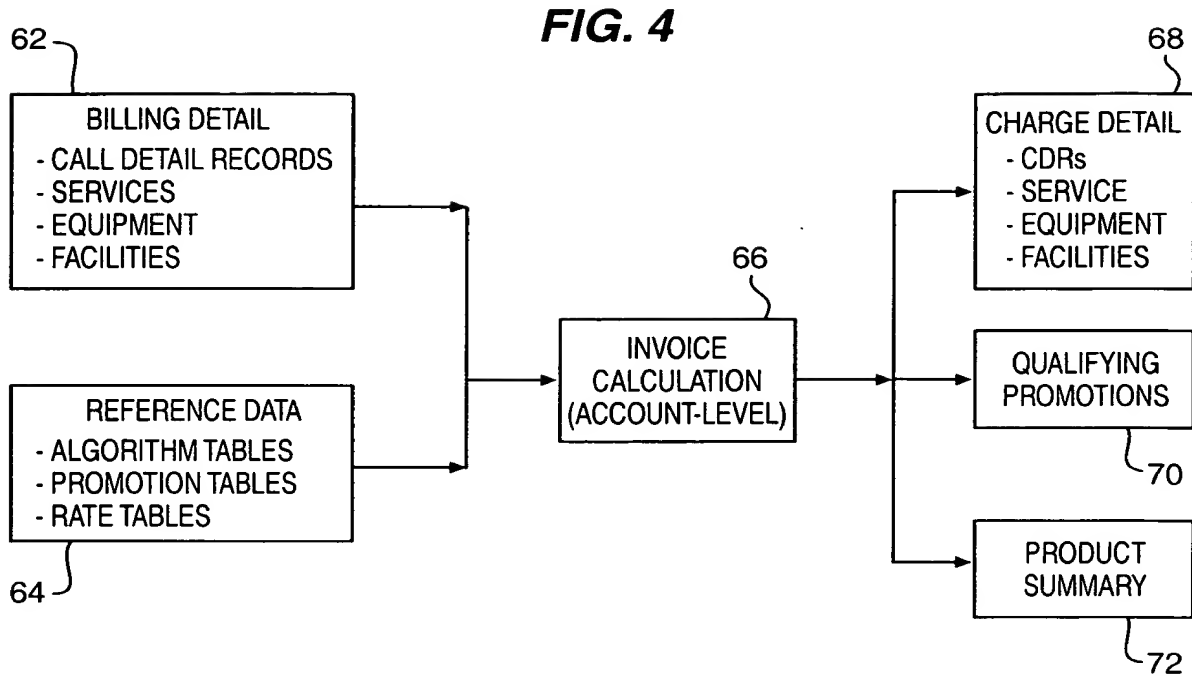
**FIG. 1**  
PRIOR ART

**FIG. 2**

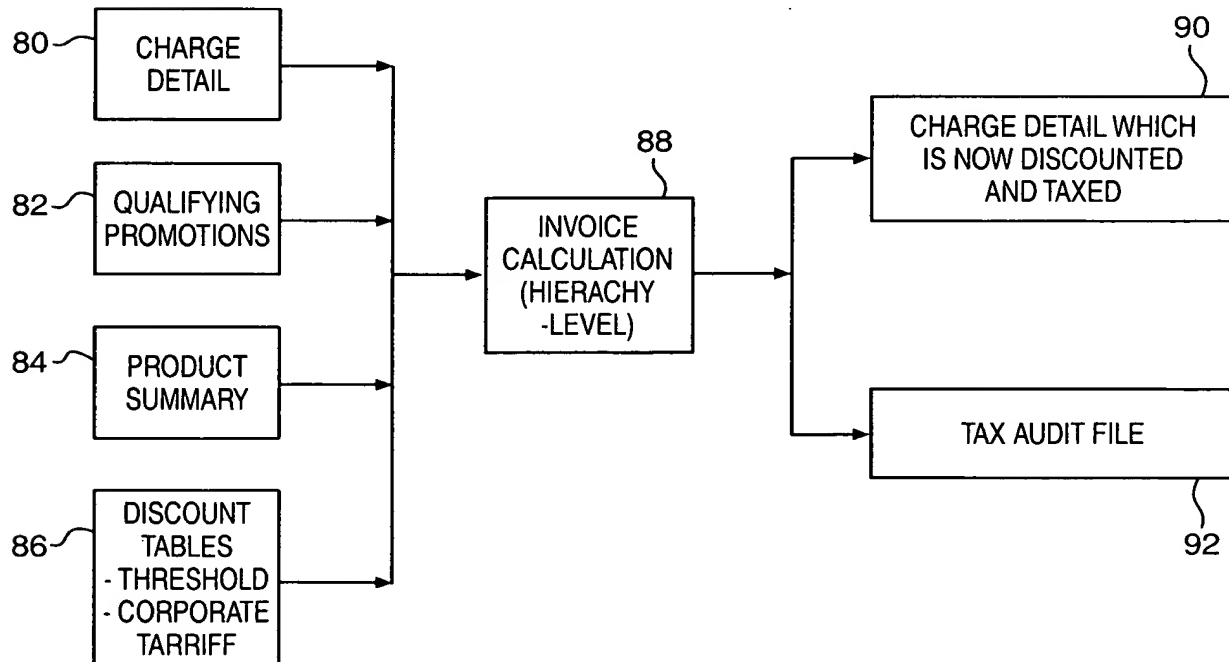


**FIG. 3**





**FIG. 5**



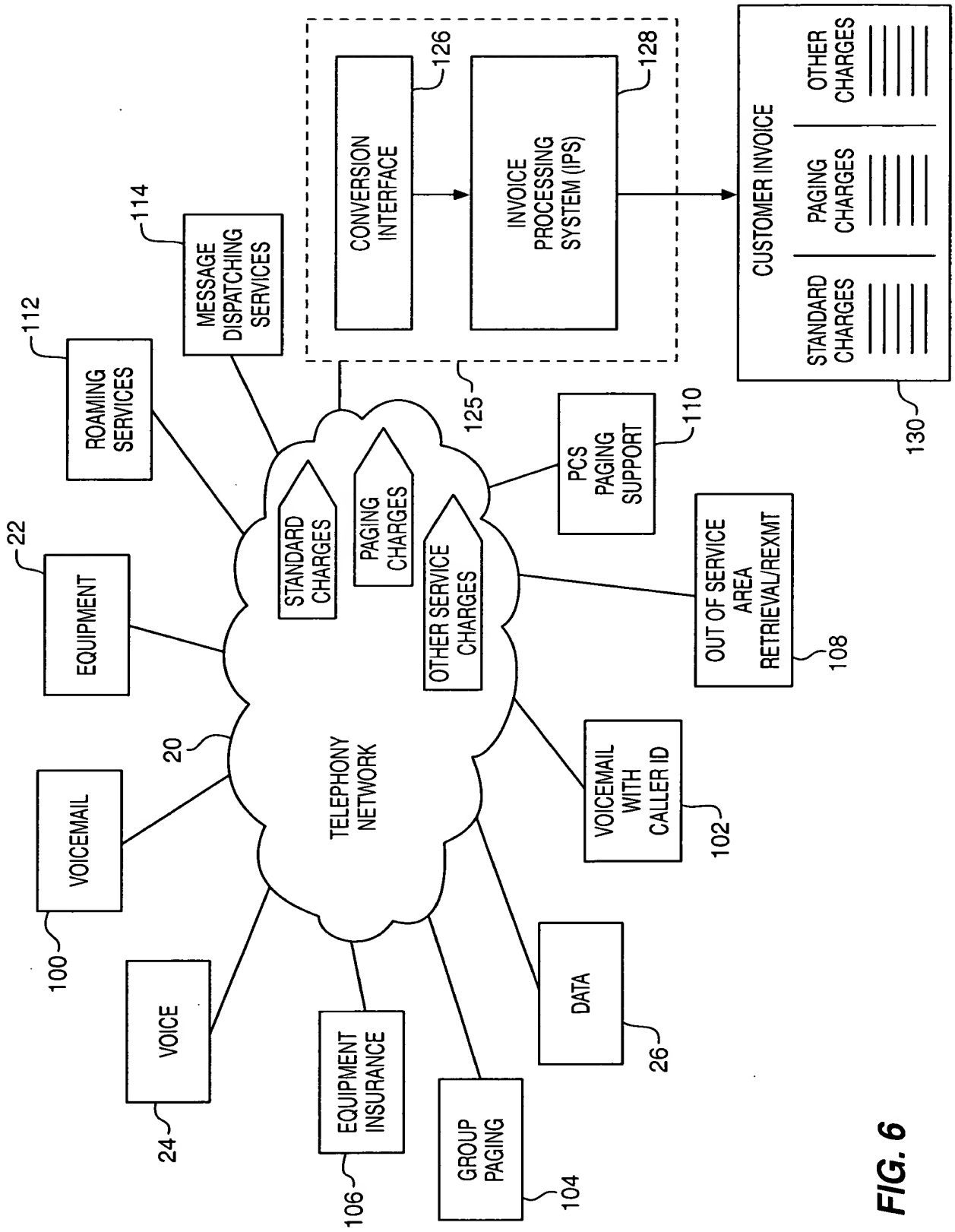
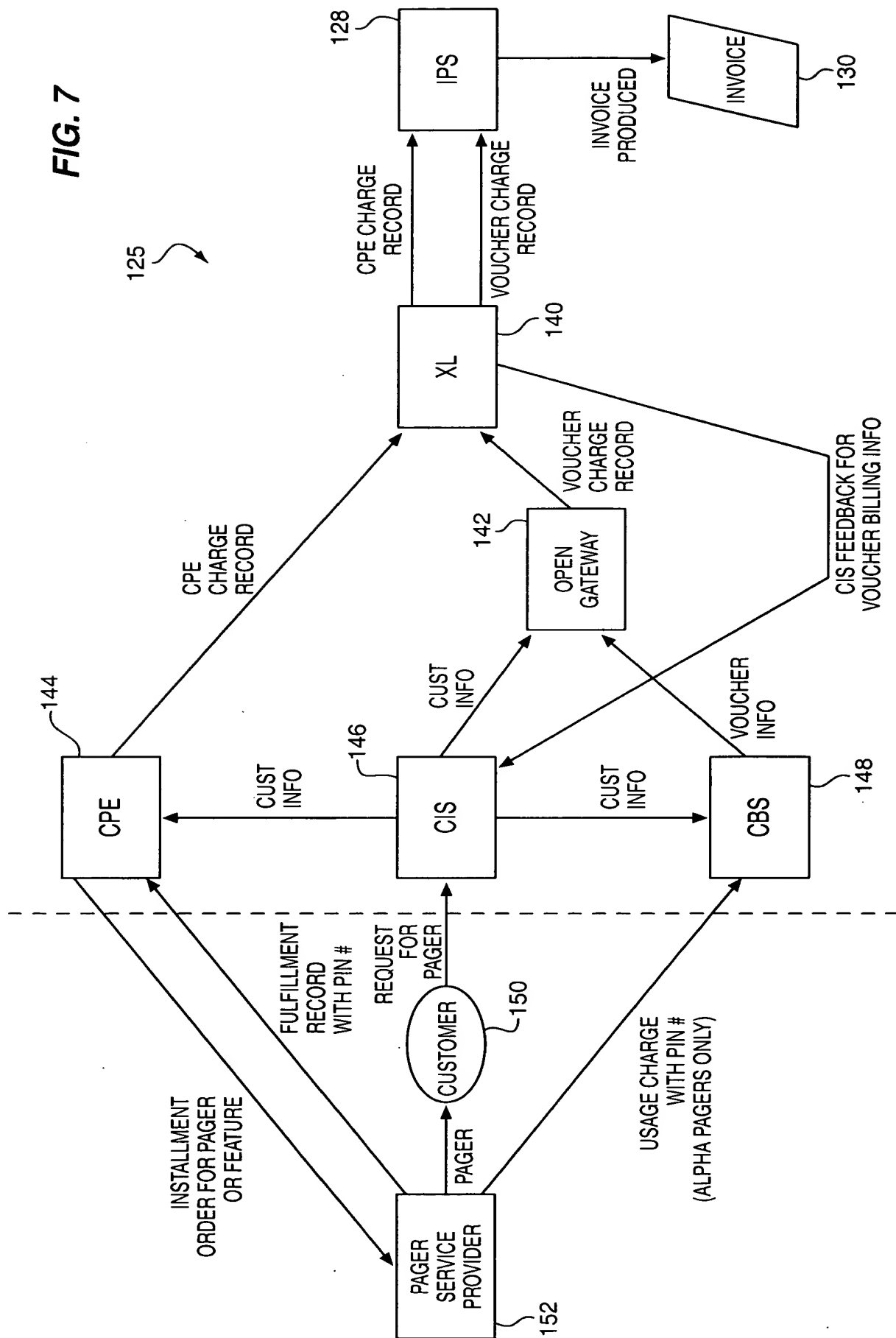
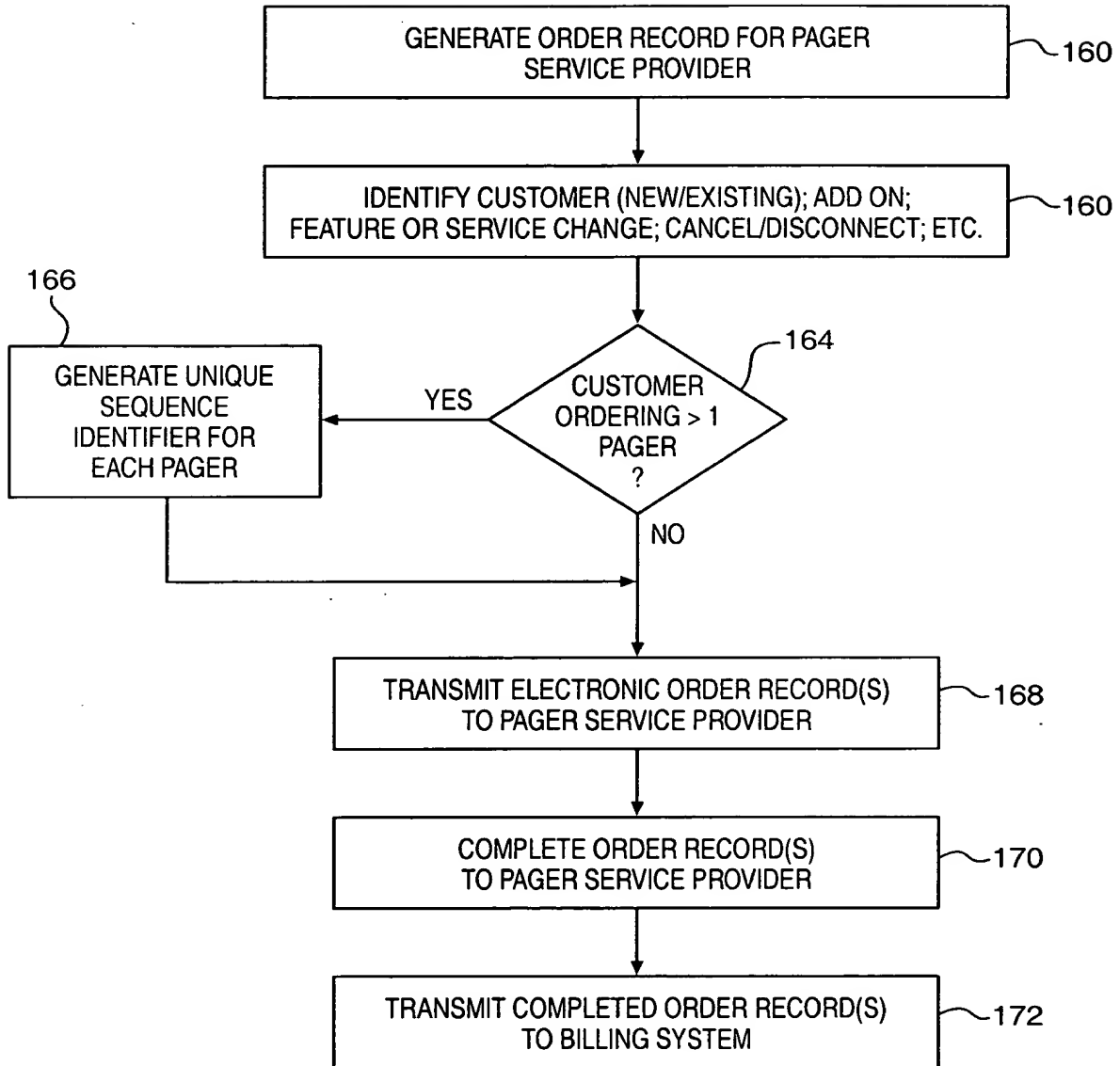


FIG. 6



**FIG. 8**



**FIG. 9**

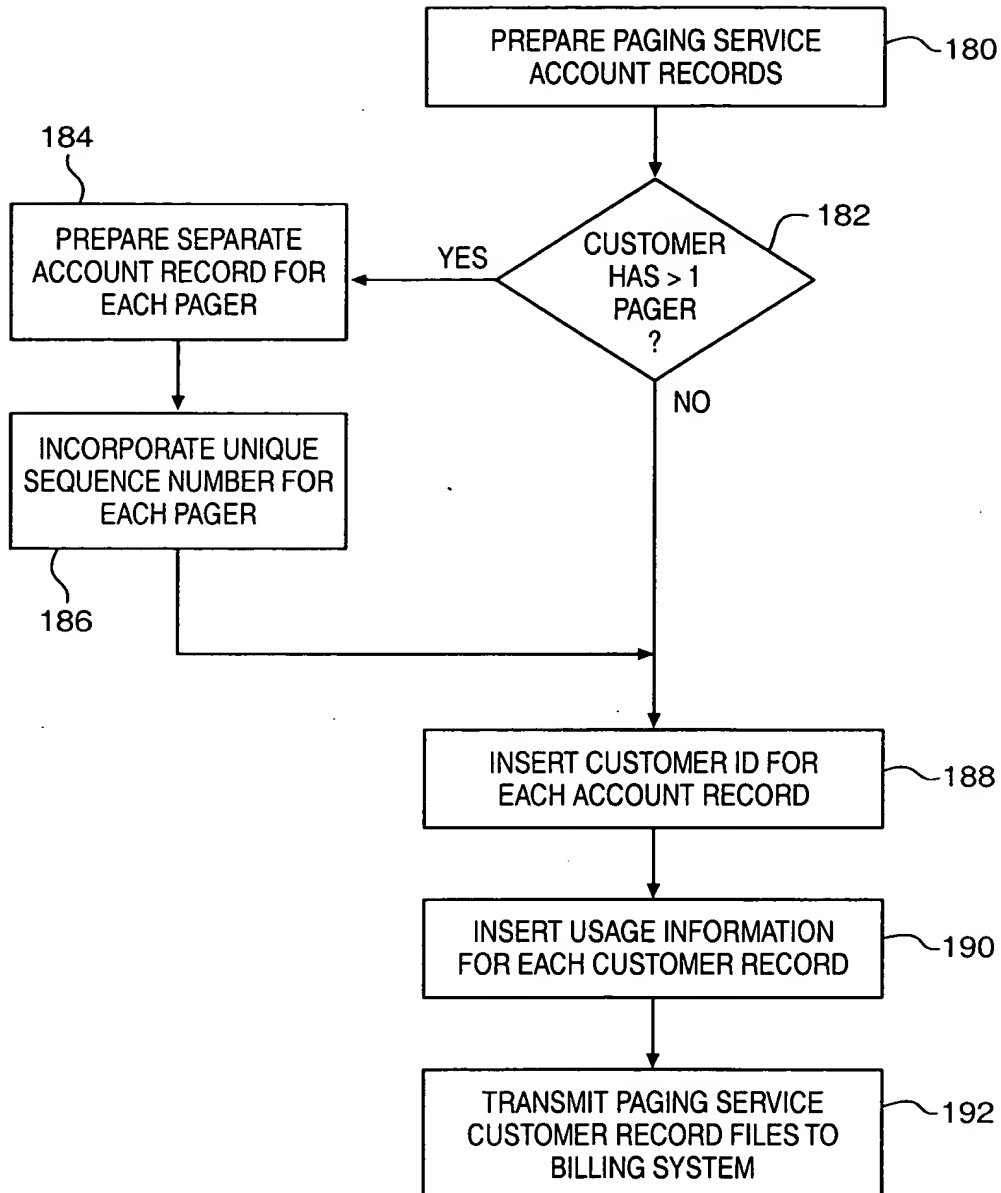
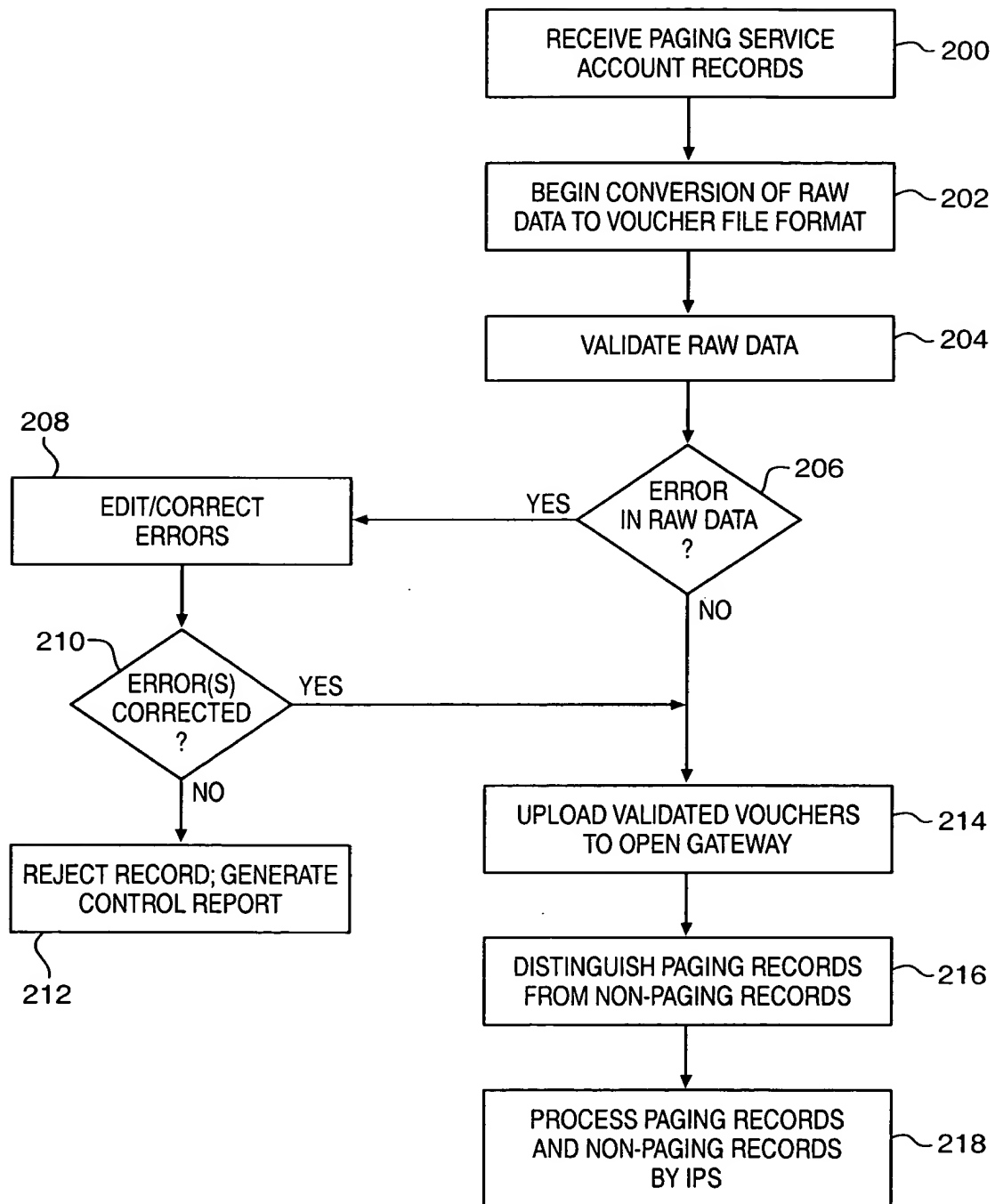


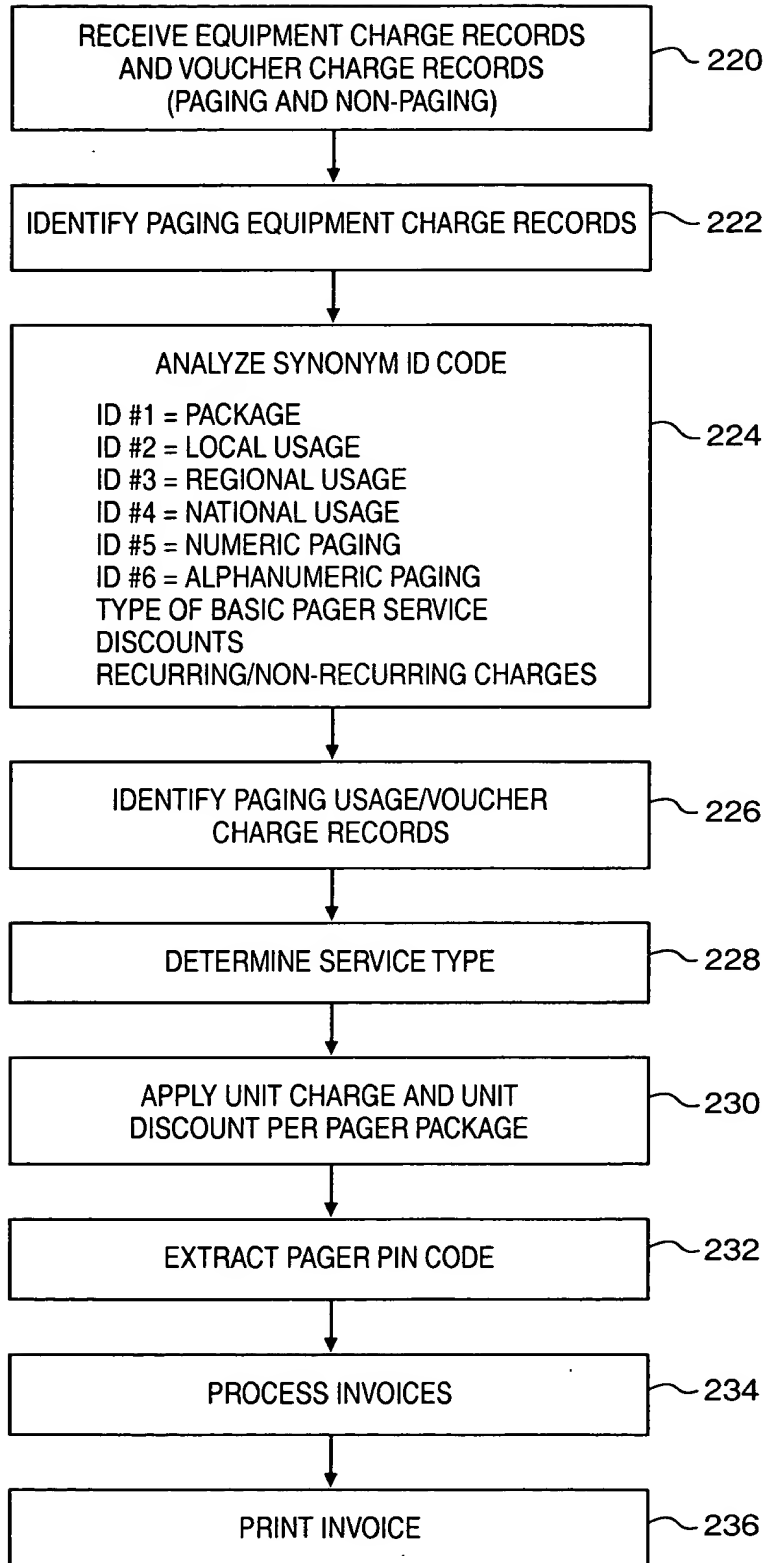
FIG. 9

FIG. 10



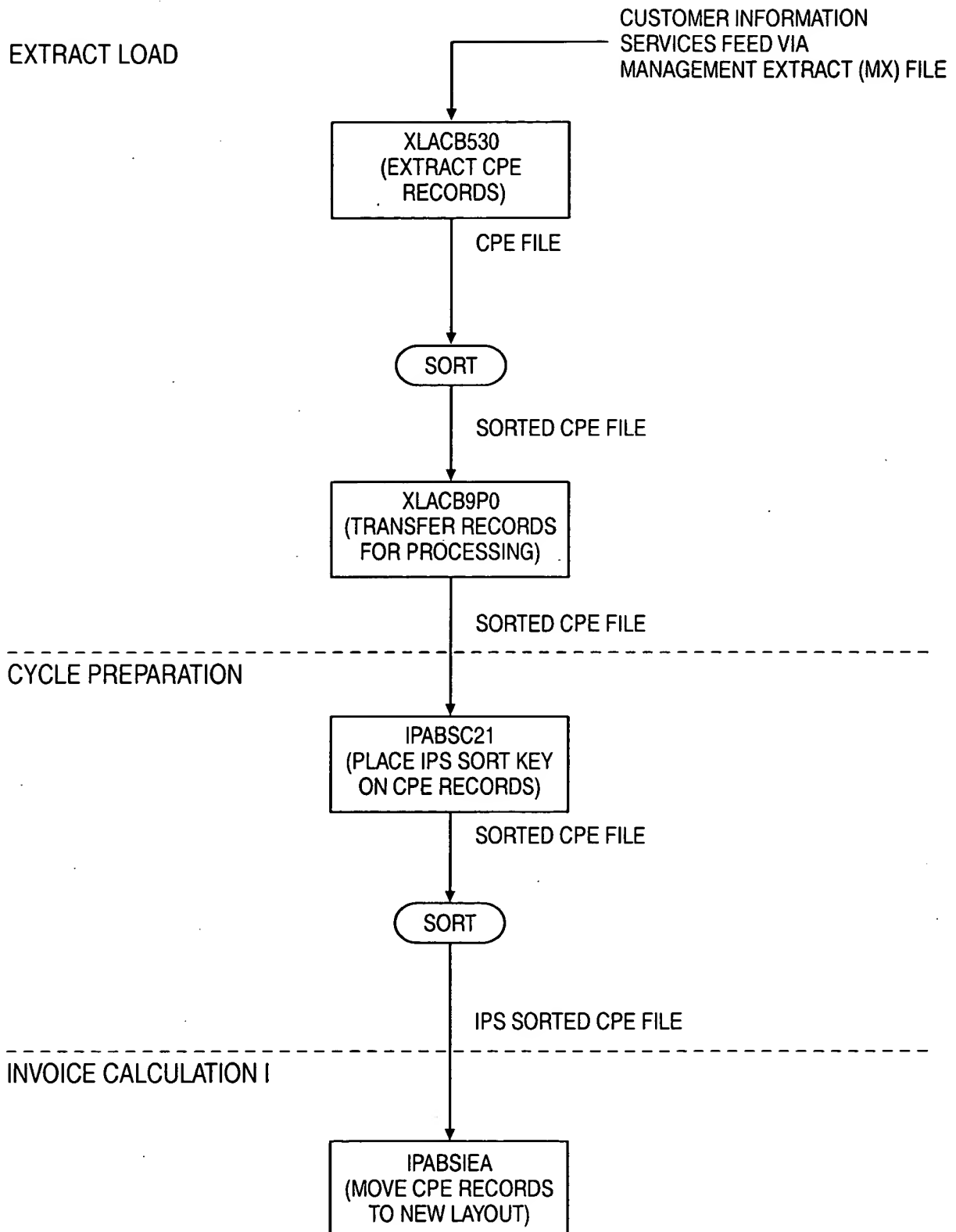


**FIG. 11**



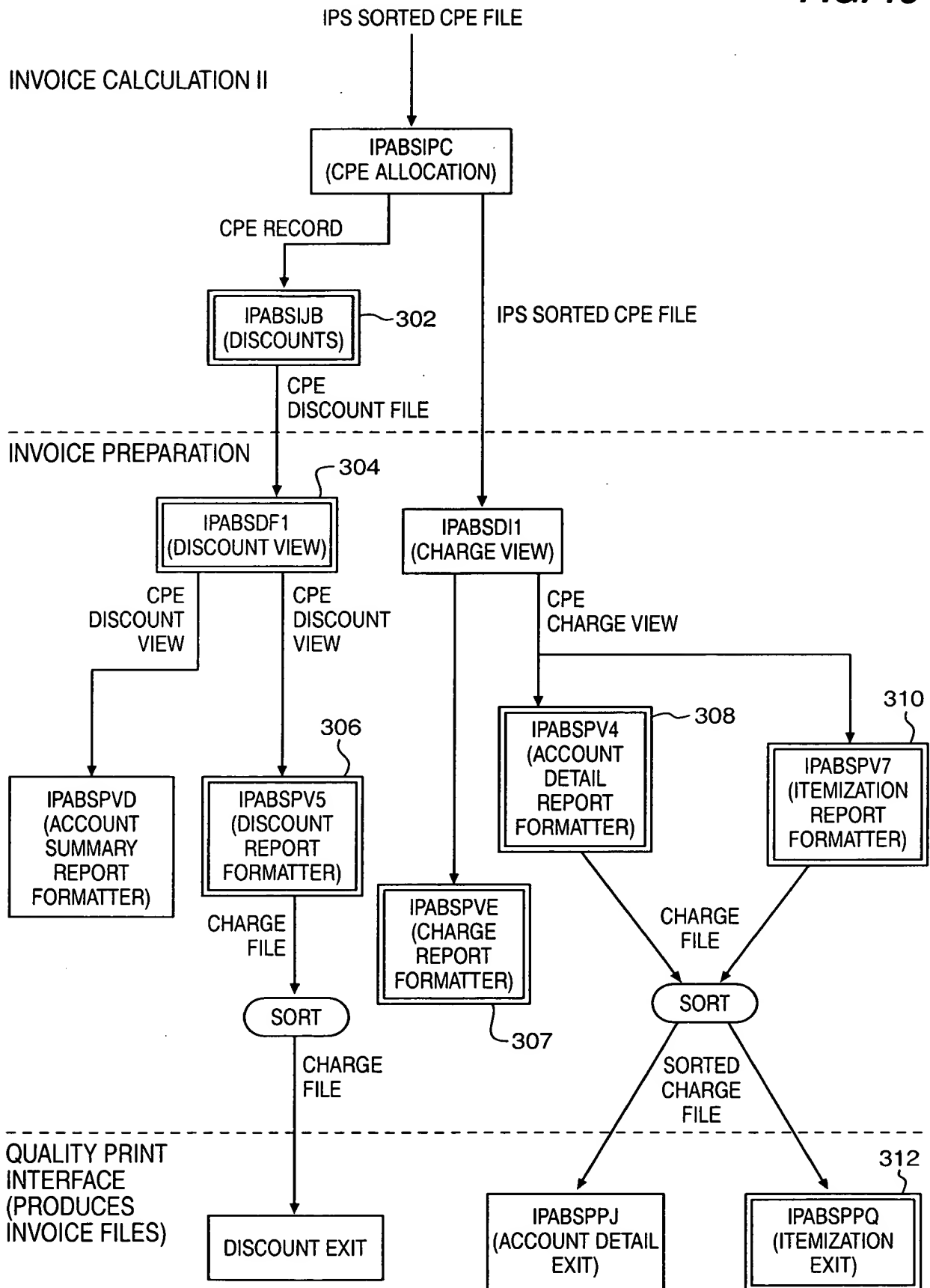
105120: 6648460

**FIG. 12**



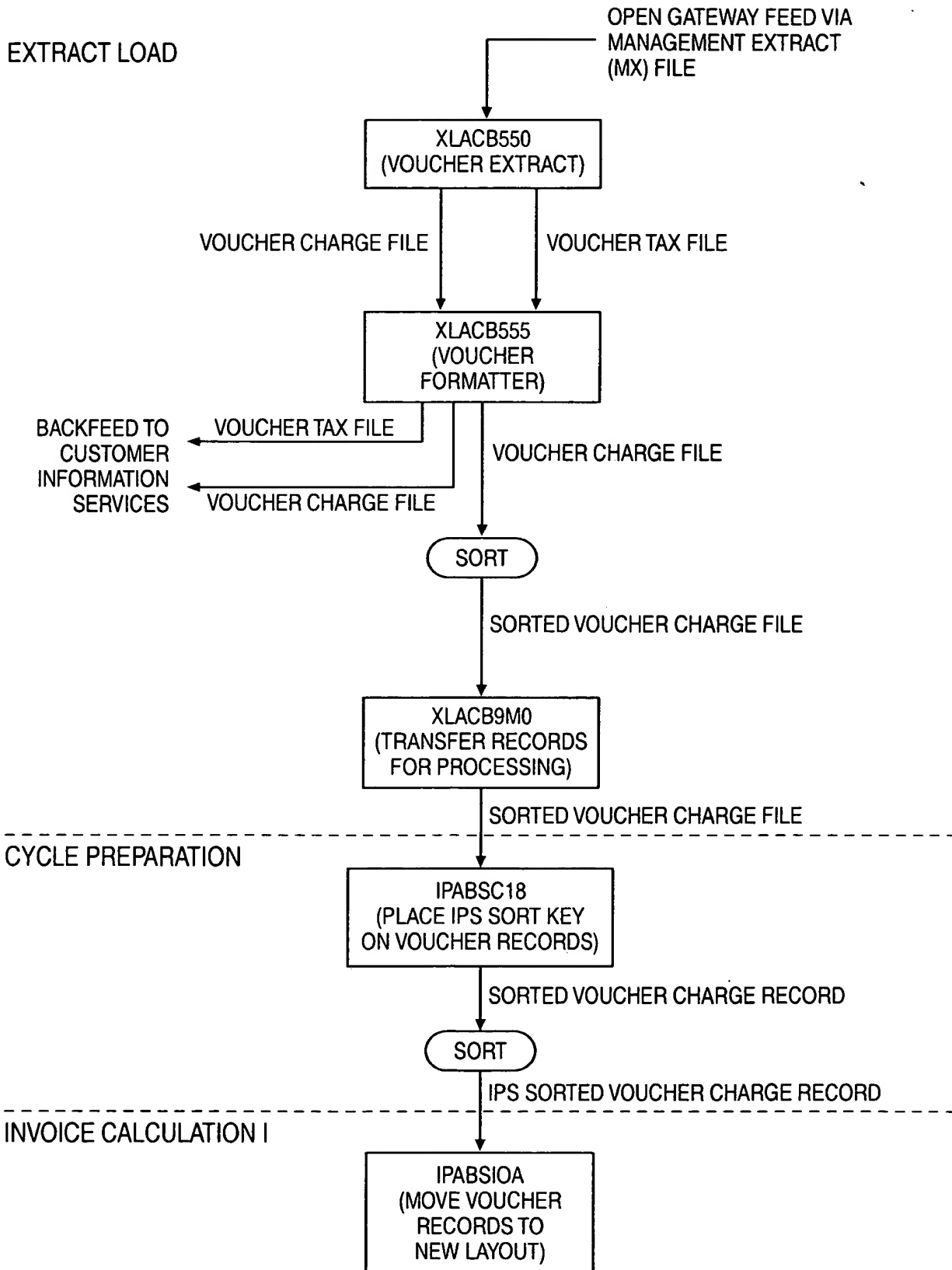
105720 6648260

**FIG. 13**



TESTED - E6248260

**FIG. 14**



105120 16243600

**FIG. 15**

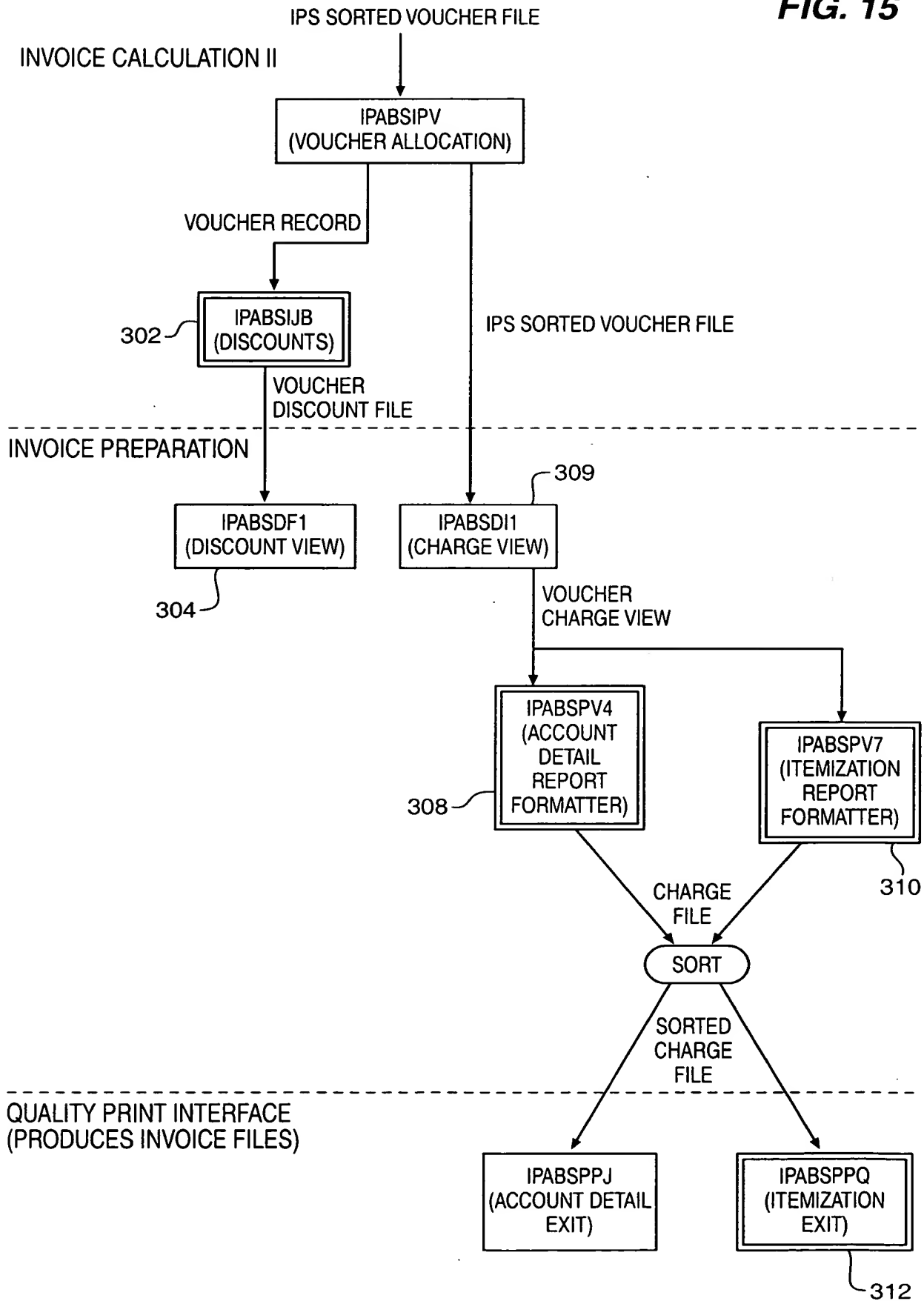


FIG. 15

FIG. 16A

NAME  
ADDRESS  
ADDRESS2  
CITY, ST. ZIP

Page: 1  
Billing Period Ending: 5/15/97  
Invoice Date: 4/12/97  
Customer Number: XXXXXXXXXX

*Summary of Charges*

Balance Forward	Account Adjustments	Charges	Discounts	Taxes	Current Total	Payable Upon Receipt
\$390.01	\$ .00	\$1,219.30	-\$12.64	\$49.48	\$1,256.14	\$1,646.15

*Important Information . . .*



ATTENTION

\*\* Attention! Past due balances jeopardize service. \*\*

Fold, then Detach and Return this Portion with Your Payment

Customer Number: XXXXXXXXXX

Payable Upon Receipt  
\$1,646.15

AMOUNT ENCLOSED \$ \_\_\_\_\_

NAME  
ADDRESS  
ADDRESS2  
CITY, ST. ZIP

Return name  
Return Address  
CITY, ST. ZIP



POSTED 05/15/97

**FIG. 16B**

NAME  
COMBINED SERVICES

Page: 2  
Billing Period Ending: 5/15/97  
Customer Number: XXXXXXXXXX

*Account Summary*

**BALANCE FORWARD**

Description	Date	Amount
Previous Balance		\$390.01
BALANCE FORWARD		\$390.01

**MULTIPLE ACCOUNT SUMMARY**

Account	Charges	Discounts	Taxes	Total
NAME COMBINE SERVICES 840946563	\$70.00	\$0.00	\$3.45	\$73.45
NAME CLARITY - SWITCHED 2 YR 142238123	33.12	-1.33	2.86	34.65
NAME CLARITY ATLANTIC - DEDICATED 2 YR 142238123	455.27	-3.53	3.86	455.70
NAME BUSINESS PAGING 157144138	660.91	-7.78	39.21	692.34
CURRENT TOTAL	\$1,219.30	-\$12.64	\$49.48	\$1,256.14
TOTAL AMOUNT DUE - Payable Upon Receipt				\$1,646.15

*Account Detail*

NAME  
COMBINED SERVICES  
ACCOUNT #: XXXXXXXXXX

**CHANGES**

	Amount
LONG DISTANCE MONTHLY CHARGES	\$10.00
SUMMARY OF CHARGES REPORT	10.00
DETAIL OF CHARGES REPORT	25.00
FONVIEW FOR WINDOWS-W/PAPER INVOICE	25.00
CLARITY SERVICE FEE	\$70.00
TOTAL CHARGES	\$70.00
CURRENT MONTH SUBTOTAL	\$70.00

**TAXES**

STATE SALES TAX	\$2.70
FEDERAL EXCISE TAX	.75
TOTAL TAXES	\$3.45
CURRENT TOTAL - ACCOUNT # XXXXXXXXXX	\$73.45

09784793:024504

FIG. 16C

NAME  
CLARITY - SWITCHED 2 YR  
ACCOUNT #: YYYYYYYYYY

Page: 3  
Billing Period Ending: 5/15/97  
Customer Number: XXXXXXXXXX

Account Detail

CHARGES

	Calls	Minutes	Amount
CLARITY - SWITCHED 2 YR			
International	2	12.5	\$13.30
Operator Service	3	9.0	19.82
TOTAL CHARGES	5	21.5	\$33.12

DISCOUNTS

CUSTOMER COUNTRY DISC:	UNITED KGDM	-\$1.33
TOTAL DISCOUNTS		-\$1.33
CURRENT MONTH SUBTOTAL		\$31.79

TAXES

STATE SALES TAX	\$1.91
FEDERAL EXCISE TAX	.95
TOTAL TAXES	\$2.86
CURRENT TOTAL - ACCOUNT #: YYYYYYYYYY	\$34.65

Itemization of Calls

ORIGINATING NUMBER: 201 555-0776

Nbr	Date	Time		Called Location	Called Nbr	Minutes	Charges
1	2/13/97	3:45 PM	D	NEW YORK NY	212 555-2330	6.0	\$5.42
STATION/STATION From JERSEY CITY, NJ 201 555-0776						6.0	\$5.42
TOTAL FOR 201 555-0776							

ORIGINATING NUMBER: 201 555-0801

2	2/18/97	11:18 AM	D	SWITZERLAND SL	41223180130	1.0	\$6.40
STATION/STATION From JERSEY CITY, NJ 201 555-0801						6.0	\$6.40
TOTAL FOR 201 555-0801							

ORIGINATING NUMBER: 201 555-0807

3	2/11/97	7:00 AM	D	UNITEDKGDM UK	441712481164	4.7	\$5.13
TOTAL FOR 201 555-0807						4.7	\$5.13

ORIGINATING NUMBER: 201 555-0950

4	2/18/97	10:55 AM	D	SWITZERLAND SL	41223180130	2.0	\$8.00
STATION/STATION From JERSEY CITY, NJ 201 555-0950						2.0	\$8.00
TOTAL FOR 201 555-0950							

ORIGINATING NUMBER: 201 555-1057

5	2/19/97	8:15 AM	D	UNITEDKGDM UK	441712481164	7.8	\$8.17
TOTAL FOR 201 555-1057						7.8	\$8.17

TOTAL ITEMIZATION OF CALLS - ACCOUNT # YYYYYYYYYY	21.5	\$33.12
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\* = The rate in effect at the beginning of the call.  
For a description of rate periods, please see terms and conditions.

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**FIG. 16D**

NAME  
CLARITY ATLANTIC - DEDICATED 2 YR  
ACCOUNT #: YYYYYYYYYY

Page: 4  
Billing Period Ending: 5/15/97  
Customer Number: XXXXXXXXXX

*Account Detail*

**CHARGES**

<i>CLARITY AT;ANTIC - DEDICATED 2 YR</i>	<i>Calls</i>	<i>Minutes</i>	<i>Amount</i>
International	10	36.5	\$35.27
SUBTOTAL ITEMIZED CALLS	10	36.5	\$35.27
<i>LONG DISTANCE MONTHLY CHARGES</i>			<i>Amount</i>
INTL TCO SERVICE FEE			\$100.00
<i>OTHER CREDITS AND CHARGES</i>			
FACILITY CHARGE			\$20.00
TOTAL CHARGES			\$455.27

**DISCOUNTS**

CUSTOMIZER COUNTRY DISC:	UNITEDKGDM	-\$2.69
	GERMANY	-.84
TOTAL DISCOUNTS		-\$3.53
CURRENT MONTH SUBTOTAL		\$451.74

**TAXES**

FEDERA; EXCISE TAX	\$3.96
TOTAL TAXES	\$3.96
CURRENT TOTAL - ACCOUNT # YYYYYYYYYY	\$466.70

*Itemization of Calls*

REFERENCE ID:5869469

<i>Nbr</i>	<i>Date</i>	<i>Time</i>	<i>*</i>	<i>Called Location</i>	<i>Called Nbr</i>	<i>Minutes</i>	<i>Charges</i>
1	2/03/97	10:17 AM	D	UNITEDKGDM	UK 441714898033	10.9	\$9.28
2	2/03/97	10:27 AM	D	GERMANY	GE 49699201612	1.5	2.12
3	2/03/97	10:31 AM	D	UNITEDKGDM	UK 441714898033	7.0	6.12
4	2/03/97	10:50 AM	D	UNITEDKGDM	UK 441243388511	5.7	5.05
5	2/03/97	12:04 AM	D	UNITEDKGDM	UK 441714898033	1.5	1.65
6	2/03/97	2:04 AM	E	GERMANY	GE 4989222593	.5	.94
7	2/04/97	6:39 AM	N	GERMANY	GE 496920390	2.5	2.58
8	2/04/97	9:15 AM	D	GERMANY	GE 49699201612	2.1	2.72
9	2/04/97	9:45 AM	D	UNITEDKGDM	UK 441714898033	4.3	2.92
10	2/04/97	10:31 AM	D	UNITEDKGDM	UK 441713298595	.5	.84
TOTAL FOR 58969469						36.5	\$35.27
TOTAL ITEMIZATION OF CALLS - ACCOUNT # YYYYYYYYYY						36.5	\$35.27

\* = The rate in effect at the beginning of the call.  
For a description of rate periods. please see terms and conditions.

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FIG. 16E

NAME  
BUSINESS PAGING  
Account #: ZZZZZZZZZ

Page: 5  
Billing Period Ending: 5/15/97  
Customer Number: XXXXXXXXXX

Account Detail

CHARGES

PAGING	Quantity	Amount
ALPHANUMERIC LOCAL PAGING	4	\$77.19
NUMERIC LOCAL PAGING	3	27.30
ALPHANUMERIC NATIONAL PAGING CREDIT	2	-68.50
NUMERIC NATIONAL PAGING	5	120.00
ALPHANUMERIC REGIONAL PAGING	3	109.20
NUMERIC REGIONAL PAGING	3	67.98
OPERATOR DISPATCH CHARGES	1	1.50
OTHER FEATURES/SERVICES/FEES	18	58.70
OTHER CREDITS AND CHARGES		
EQUIPMENT CHARGE	8	267.54
TOTAL CHARGES		\$660.91

DISCOUNTS

NON-USAGE DISCOUNT	-3.28
CREDIT CARD PROMOTION	-4.50
TOTAL DISCOUNTS	-7.78
CURRENT MONTH SUBTOTAL	\$653.13

TAXES

STATE SALES TAX	\$39.21
TOTAL TAXES	\$39.21
CURRENT TOTAL - ACCOUNT # ZZZZZZZZZ	\$692.34

Itemization of Charges

PAGING ID:

	Billing Period	Amount
DATA SHELF RENTAL	3/25/97 - 4/15/97	\$8.76
CHANNEL BANK SHELF RENTAL	3/25/97 - 4/15/97	62.78
DATA SHELF INSTALLATION	3/25/97 - 6/15/97	FREE
CHANNEL BANK SHELF INSTALL	3/25/97 - 6/15/97	FREE
DATA SHELF RENTAL	4/16/97 - 5/15/97	12.00
CHANNEL BANK SHELF RENTAL	4/16/97 - 5/15/97	86.00
DATA SHELF INSTALLATION	5/16/97 - 6/15/97	12.00
CHANNEL BANK SHELF INSTALL	5/16/97 - 6/15/97	86.00
TOTAL FOR		\$267.54

PAGING ID: NNNNNNNNN

	Billing Period	Amount
ALPHA REGIONAL BUNDLED PAGER RENTAL	3/25/97 - 4/15/97	\$29.20
ALPHA REGIONAL BUNDLED PAGER RENTAL	4/16/97 - 5/15/97	40.00
ALPHA REGIONAL BUNDLED PAGER RENTAL	5/16/97 - 6/15/97	40.00
800/PIN ALPHA RETRIEVAL	3/25/97 - 4/15/97	1.46
800/PIN ALPHA RETRIEVAL	4/16/97 - 5/15/97	2.00

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FIG. 16F

NAME  
BUSINESS PAGING  
Account #: ZZZZZZZZZ

Page: 6  
Billing Period Ending: 5/15/97  
Customer Number: XXXXXXXXX

Itemization of Charges

PAGING ID: NNNNNNNNN

	Billing Period	Amount
800/PIN ALPHA RETRIEVAL	5/16/97 - 6/15/97	\$2.00
TOTAL FOR: NNNNNNNNN		\$114.65

PAGING ID: NNNNNNNNN

	Billing Period	Amount
NUMERIC REGIONAL UNBUNDLED PAGER RENTAL	3/25/97 - 4/15/97	\$18.18
NUMERIC REGIONAL UNBUNDLED PAGER RENTAL	4/16/97 - 5/15/97	24.90
NUMERIC REGIONAL UNBUNDLED PAGER RENTAL	5/16/97 - 6/15/97	24.90
PERSONAL 800 PAGER PROTECT NUMERIC RETR	3/25/97 - 4/15/97	7.25
PERSONAL 800 PAGER PROTECT NUMERIC RETR	4/16/97 - 5/15/97	7.25
PERSONAL 800 PAGER PROTECT NUMERIC RETR	5/16/97 - 6/15/97	7.25
TOTAL FOR: NNNNNNNNN		\$87.77

PAGING ID: AAAAAAAAA

	Billing Period	Amount
NUMERIC NATIONAL BUNDLED PAGER RENTAL	3/25/97 - 4/01/97	\$8.10
NUMERIC NATIONAL BUNDLED PAGER RENTAL	4/02/97 - 5/01/97	30.00
800/PIN PAGER PROTECTION	3/25/97 - 4/15/97	1.10
800/PIN PAGER PROTECTION	4/16/97 - 5/15/97	1.50
800/PIN PAGER PROTECTION	5/16/97 - 6/15/97	1.50
TOTAL FOR: AAAAAAAAA		\$42.20

PAGING ID: BBBB BBBB

	Billing Period	Amount
NUMERIC NATIONAL BUNDLED PAGER RENTAL	3/25/97 - 4/15/97	\$21.90
NUMERIC NATIONAL BUNDLED PAGER RENTAL	4/16/97 - 5/15/97	30.00
NUMERIC NATIONAL BUNDLED PAGER RENTAL	5/16/97 - 6/15/97	30.00
800/PIN PAGER PROTECTION	3/25/97 - 4/15/97	1.10
800/PIN PAGER PROTECTION	4/16/97 - 5/15/97	1.50
800/PIN PAGER PROTECTION	5/16/97 - 6/15/97	1.50
TOTAL FOR: BBBB BBBB		\$86.00

PAGING ID: CCCCCCCCC

	Billing Period	Amount
NUMERIC LOCAL BUNDLED PAGER RENTAL	3/25/97 - 4/15/97	\$7.30
NUMERIC LOCAL BUNDLED PAGER RENTAL	4/16/97 - 5/15/97	10.00
NUMERIC LOCAL BUNDLED PAGER RENTAL	5/16/97 - 6/15/97	10.00
800/PIN PAGER PROTECTION NUMERIC RETRIEV	3/25/97 - 4/15/97	1.64
800/PIN PAGER PROTECTION NUMERIC RETRIEV	4/16/97 - 5/15/97	2.25
800/PIN PAGER PROTECTION NUMERIC RETRIEV	5/16/97 - 6/15/97	2.25
TOTAL FOR: CCCCCCCCC		\$33.44

PAGING ID: DDDDDDDDD

	Billing Period	Amount
ALPHA LOCAL UNBUNDLED PAGER RENTAL	3/14/97 - 3/15/97	\$2.48
ALPHA LOCAL UNBUNDLED PAGER RENTAL	3/16/97 - 4/15/97	24.90
ALPHA LOCAL UNBUNDLED PAGER RENTAL	4/15/97 - 6/15/97	24.90
ALPHA LOCAL UNBUNDLED PAGER RENTAL	5/16/97 - 6/15/97	24.90
TOTAL FOR: DDDDDDDDD		\$77.19

FIG. 16F

## FIG. 16G

NAME  
BUSINESS PAGING  
Account #: ZZZZZZZZZ

Page: 7  
Billing Period Ending: 5/15/97  
Customer Number: XXXXXXXXXX

### Itemization of Charges

PAGING ID: EEEEEEEEE

	Billing Period	Amount
ALPHA NATIONAL BUNDLED PAGER RENTAL CREDI	4/04/97 - 4/15/97	-\$18.50
ALPHA NATIONAL BUNDLED PAGER RENTAL CREDI	4/16/97 - 5/15/97	-50.00
PERSONAL 800 PAGER ALPHA RETRIEVAL	3/25/97 - 4/15/97	5.11
PERSONAL 800 PAGER ALPHA RETRIEVAL	4/15/97 - 5/15/97	7.00
PERSONAL 800 PAGER ALPHA RETRIEVAL	5/15/97 - 6/15/97	7.00
TOTAL FOR: EEEEEEEEE		-\$49.39

PAGING ID: FFFFFFFFF

	Billing Period	Amount
OPERATOR DISPATCH/3 PAGES @\$ .50 EACH	4/02/97 - 5/02/97	\$1.50
TOTAL FOR: FFFFFFFFF		\$1.50

TOTAL ITEMIZATION OF CHARGES - ACCOUNT # ZZZZZZZZZ	\$660.91
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TESTED: 0649260